

Name \_\_\_\_\_ Hour \_\_\_\_\_ Parent Signature \_\_\_\_\_

### Air Quality LS 4 Test Review

1. Define and give examples of fossil fuels.
2. What are the primary and secondary pollutants that are produced by coal-burning pollutants?

Primary

Secondary

3. How are the amounts of pollutants released into the environment at coal-burning power plants reduced?
4. What are the advantages and disadvantages of using coal to generate electricity?

Advantages

Disadvantages

5. Although the Adirondacks Mountains have a low population and very little industry they have severe environmental problems associated with air pollution. Explain.
6. Explain how acid rain forms and the types of acids that are formed during this process.

7. List at least 3 characteristics of an acid.
8. List at least 3 characteristics of a base.
9. List the types of acid base indicators discussed in the book.
10. What happens when an acid is placed in water?
11. What happens when a base is placed in water?
12. A solution with a pH of 4 is how much more acidic than a solution with a pH of 6? Explain how you got your answer.
13. Define the following
  - a. pH
  - b. Ion
  - c. Positive ion
  - d. Negative ion
  - e. greenhouse effect
  - f. leeching

14. What charge would an atom have if it lost 3 electrons? \_\_\_\_\_

15. What charge would an atom have if it gained 2 electrons? \_\_\_\_\_

16. What are the greenhouse gases?

17. Describe the change in mean global temperatures over the last 200 years.

18. Draw a picture to illustrate how pollutants move up the food chain.

19. What types of pollutants are concerns in the food chain?

20. Would you expect an organism close to the bottom or near the top of the food chain to have a higher concentration of heavy metal toxins in their body? Explain

